SWAYAM YADAV

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Education

Kalinga Institute of Industrial Technology, Bhubaneswar, India   **October 2021 - Present**
Bachelor of Technology in Computer Science & Engineering   *CGPA: 6.79/10*

St. Joseph College, Bhalwari, Nepal   **October 2018 - April 2020**
Senior Secondary School (12th)   *CGPA: 3.22/4*

Projects

Smart Door Lock Using Face Recognition System   **GitHub**

– Developed a smart door lock system using facial recognition with Python and OpenCV, gaining practical experience with image processing and model training using the LBPH classifier.
– Designed a Tinkercad simulation to understand the integration of facial recognition technology with Arduino, applying key concepts in a simulated environment.
– Enhanced understanding of security system development and hardware-software interaction through hands-on application and project execution.

American Sign Language Detection System   **GitHub**

– Implemented an ASL detection system utilizing Python, Random Forest Classifier, and OpenCV for gesture recognition, and MediaPipe for precise hand tracking, gaining foundational knowledge in computer vision and machine learning.
– Serialized the trained model using Pickle for efficient deployment, deepening understanding of real-time data processing.
– Enhanced skills in applying machine learning algorithms to solve real-world problems, focusing on gesture recognition and real-time processing.

Private Key Encryption and Decryption   **GitHub**

– Developed AES encryption mechanism with CBC mode in Python using PyCryptodome to securely encrypt and decrypt private keys, ensuring data protection and confidentiality.
– Utilized password-based key derivation by applying SHA-256 to generate a strong 32-byte encryption key from user passwords, enhancing encryption security.
– Applied base64 encoding and decoding to handle and transmit binary data in a text-friendly format, facilitating efficient data storage and retrieval.

Skills

Languages: Python, C/C++
Cybersecurity Tools: SIEM Tools, OSINT Tools, Reconnaissance Tools, Kali Linux
Security Knowledge: Cryptography, Threat Management, Incident Response
Technologies: OpenCV, MediaPipe, Scikit-learn, Matplotlib
Academic Background: Data Analytics, IoT, DSA, OOP, DBMS

Certifications

– **Python for Everybody Specialization** (*Coursera*)   **Jan 2024 – Mar 2024**
– **Google Cybersecurity Professional Certificate** (*Coursera*)   **May 2024 – Jul 2024**
– **Google IT Automation with Python Professional Certificate** (*Coursera*)   **May 2024 – Present**
– **Ethical Hacker** (*Udemy*)   **Sep 2024 – Present**

EXTRACURRICULAR ACTIVITIES

Member of CyberVault, KIIT University   **2023 – Present**
– Cyber Security society of KIIT

Lead Member of KORUS Individual Dance Crew, KIIT University   **2022 – Present**
– Lead performances and coordinate team activities

Active Member of Obstruction Dance Crew, Nepal   **2018 – Present**
– Contribute to choreography and performance planning